

Appl. No. 09/486,715  
Amendment dated: July 30, 2003  
Reply to OA of: March 31, 2003

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

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Claims 1-5 (canceled).

6(currently amended). An analytical device comprising:

- a) at least two input ports in fluid communication with a common channel;
- b) a detection zone having an input in fluid communication with the common channel and an output;
- c) a multiwavelength spectrophotometric detector for monitoring fluid flowing through the detection zone and producing data at more than one wavelength relating to at least one chemical or physical characteristic of the fluid; and
- d) control means associated with the input ports for controlling the relative amounts of fluid introduced into the common channel through each port to vary the composition of the fluid in the common channel continuously and linearly with time.

7(original). An analytical device according to claim 6 wherein the spectrophotometric detector is an ultraviolet or visible range spectrophotometer, a fluorimeter, a polarimeter, a colourimeter, or a light scattering, optical rotation or circular dichrosim detector.

8(currently amended). An analytical device according to claim 7 wherein the spectrophotometric detector is a scanning ultraviolet or visible range spectrophotometer.

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9(previously amended). An analytical device according to claim 6 wherein the control means associated with the input ports comprises an automatic syringe, mixer pump, peristaltic pump or digital on-off valve pump, or a combination thereof.

10(previously amended). An analytical device according to claim 6 further comprising an automated sample delivery device adapted to deliver a plurality of samples successively into the common channel.

11(original). An analytical device according to claim 10 wherein the automated sample delivery device comprises an autosampler.

12(previously amended). An analytical device according to claim 6 for use in the high-throughput determination of pKas.

Claims 13-14 (canceled).

15(new). An analytical device according to claim 7 wherein the control means associated with the input ports comprises an automatic syringe, mixer pump, peristaltic pump or digital on-off valve pump, or a combination thereof.

16(new). An analytical device according to claim 7 further comprising an automated sample delivery device adapted to deliver a plurality of samples successively into the common channel.

17(new). An analytical device according to claim 8 further comprising an automated sample delivery device adapted to deliver a plurality of samples successively into the common channel.

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18(new). An analytical device according to claim 9 further comprising an automated sample delivery device adapted to deliver a plurality of samples successively into the common channel.

19(new). An analytical device according to claim 15 further comprising an automated sample delivery device adapted to deliver a plurality of samples successively into the common channel.

20(new). An analytical device according to claim 7 for use in the high-throughput determination of pKas.  
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21(new). An analytical device according to claim 8 for use in the high-throughput determination of pKas.

22(new). An analytical device according to claim 9 for use in the high-throughput determination of pKas.

23(new). An analytical device according to claim 10 for use in the high-throughput determination of pKas.

24(new). An analytical device according to claim 11 for use in the high-throughput determination of pKas.

25(new). An analytical device according to claim 15 for use in the high-throughput determination of pKas.

26(new). An analytical device according to claim 16 for use in the high-throughput determination of pKas.

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27(new). An analytical device according to claim 17 for use in the high-throughput determination of pKas.

28(new). An analytical device according to claim 12 for use in the high-throughput determination of pKas.

29(new). An analytical device according to claim 19 for use in the high-throughput determination of pKas.